

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-24. (Canceled)

25. (Currently Amended) A method for use in a code division multiple access (CDMA) base station for providing multiple grades of service to a plurality of subscriber units requesting traffic channels, the method comprising:

detecting requests for access from a plurality of subscriber units to transmit data to or receive data from the base station using a plurality of traffic channels;

assigning a priority level for each of the detected requests, the priority level associated with the subscriber unit transmitting the request, wherein the priority level of the subscriber unit depends on the priority level of all inactive users, on a continuity of resource demand and on historical usage of base station resources, and wherein a ratio of subscriber units assigned to different priority levels is respected independently of the total number of subscriber units assigned at each priority level;

comparing a time allocation of continuously used channel resources for each of the subscriber units against a predetermined time threshold of allowed usage and reducing the priority level ~~when~~ on a condition that the predetermined time

threshold is exceeded;

allocating at least one traffic channel to each of the subscriber units requesting to transmit data to or receive data from the base station based on the priority level of the subscriber unit, wherein a subscriber unit with a lower priority level is allocated fewer traffic channels than a subscriber unit assigned a higher priority level; and

assigning a lower priority level to a subscriber unit on a condition that the time allocation of continuously used channel resources is higher than the predetermined time threshold.

26-28. (Canceled)

29. (Currently Amended) The method of claim 25 wherein the subscriber unit is assigned a higher priority level ~~when~~ on a condition that the subscriber unit's historical usage is lower than the time threshold for a predetermined period of time.

30. (Previously Presented) The method of claim 29 wherein the higher priority level results in the subscriber unit being allocated more traffic channels than a subscriber unit assigned a lower priority level.

31. (Previously Presented) The method of claim 25, further comprising:
reserving at least one traffic channel for subscriber units having the lowest
priority level; and

creating a queue of detected requests from subscriber units with the lowest
priority level to ensure that subscriber units with the lowest priority level are
allocated the at least one traffic channel at predetermined times.

32. (Currently Amended) A code division multiple access (CDMA) base
station comprising:

circuitry configured to detect a request from a plurality of subscriber units to
transmit data to or receive data from the base station using a plurality of traffic
channels;

circuitry configured to assign a priority level for each of the detected
requests, the priority level associated with the subscriber unit transmitting the
request, wherein the priority level of the subscriber unit depends on the subscriber
unit's historical usage of base station resources, on the instantaneous demand for
access and on a continuity of resource demand, wherein a ratio of subscriber units
assigned to different priority levels is respected independently of the total number
of subscriber units assigned at each priority level;

circuitry configured to compare a time allocation of continuously used channel resources for each of the subscriber units against a predetermined time of allowed usage threshold and to reduce the priority level ~~when~~ on a condition that the predetermined time threshold is exceeded; and

circuitry configured to allocate the traffic channels to each of the subscriber units requesting to transmit data to or receive data from the base station based on the priority level of the subscriber unit, wherein a subscriber unit with a lower priority level is allocated fewer traffic channels than a subscriber unit assigned a higher priority level.

33. (Canceled)

34. (Currently Amended) The code division multiple access (CDMA) base station of claim 32 wherein the subscriber unit is assigned a lower priority level ~~when~~ on a condition that the subscriber unit's historical usage is higher than the time threshold for a predetermined period of time.

35. (Canceled)

36. (Currently Amended) The code division multiple access (CDMA)

base station of claim 32 wherein the subscriber unit is assigned a higher priority level ~~when~~ on a condition that the subscriber unit's historical usage is lower than the time threshold for a predetermined period of time.

37. (Previously Presented) The code division multiple access (CDMA) base station of claim 36 wherein the higher priority level results in the subscriber unit being allocated more traffic channels than a subscriber unit assigned a lower priority level.

38. (Previously Presented) The code division multiple access (CDMA) base station of claim method of claim 32, further comprising:

circuitry configured to reserve at least one traffic channel for subscriber units having the lowest priority level; and

circuitry configured to create a queue of detected requests from subscriber units with the lowest priority level to ensure that subscriber units with the lowest priority level are allocated the at least one traffic channel at predetermined times.